

Selected claims without redacting:

4. A switch comprising:

a switch body including a connector portion;
an insulation displacement connector on the connector portion; and

an insulating flap hinged to the switch body, the flap having an open position, a latched position parallel to the connector portion and an intermediate catch position with the flap at an acute angle in the range of from about 10 to 20 degrees from the connector portion, and from which the flap does not rotate back toward the open position.

12. A switch comprising:

a switch body including a connector portion;
an insulation displacement connector on the connector portion; and

an insulating flap hinged to the switch body, a hook on the connector portion, a first shoulder on the flap located to engage the hook in a first position and a second shoulder on the flap located to engage the hook in a second position.

16. A switch comprising:

a switch body including a connector portion;
an insulation displacement connector on the connector portion, the insulation displacement connector having two tines with an open ended slot therebetween for receiving a wire transverse to the slot, and sufficiently close together to displace insulation from such a wire pressed into the slot along

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the length of the slot and make electrical contact with the wire; and

an extension on the end of each of the tines, the extensions meeting beyond the open end of the slot to form a guide opening for wire adjacent the open end of the slot.

17. A switch comprising:

a switch body including a connector portion;

an insulation displacement connector on the connector portion, the insulation displacement connector having two tines with an open ended slot therebetween for receiving a wire transverse to the slot, and sufficiently close together to displace insulation from such a wire pressed into the slot along the length of the slot and make electrical contact with the wire; and

an extension on the end of each of the tines, the extensions meeting beyond the open end of the slot to form a keyhole shaped opening.

18. A switch comprising:

a switch body including a connector portion;

at least a pair of insulation displacement connectors on the connector portion, each insulation displacement connector having two metal tines with an open ended slot therebetween for receiving a wire transverse to the slot, and sufficiently close together to displace insulation from such a wire pressed into the slot along the length of the slot and make electrical contact with the wire; and

an insulating flap hinged to the switch body, the hinge comprising a thin layer of plastic integral with the connector

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portion and the flap, the axis of the hinge being parallel to such a wire in the slot;

a pair of guide wings on the connector portion straddling edges of the flap adjacent to the hinge;

a guide pin on one of the connector portion and the flap, and an alignment hole on the other of the flap and connector portion for engaging the guide pin;

a hook on a flexible arm on the connector portion;

a first shoulder on the flap located to engage the hook in a latched position;

a second shoulder on the flap located to engage the hook in an intermediate position between the open position and the latched position;

a pair of rounded grooves inside the flap, each groove extending parallel to such a wire in the slot of one of the insulation displacement connectors and lying adjacent to the open end of the slot in the intermediate position of the flap;

a pair of slits in the flap aligned with the insulation displacement connectors when the flap is in the latched position, the edges of the slits straddling the respective insulation displacement connectors for pressing a wire into the slot between two tines.